

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-227051

(43)Date of publication of application : 03.09.1996

(51)Int.Cl.

G02B 26/10

F16C 17/02

F16C 33/12

(21)Application number : 07-271499

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(22)Date of filing : 19.10.1995

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(30)Priority

Priority number : 06334606

Priority date : 20.12.1994

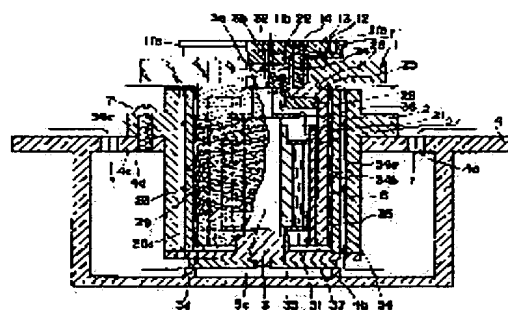
Priority country : JP

(54) MOTOR WITH POLYGON MIRROR

(57)Abstract:

PURPOSE: To obviate the occurrence of seizure between dynamic pressure bearing surfaces and to prevent the splashing of worn powder (resin powder).

CONSTITUTION: This motor with a polygon mirror rotates a rotor 2 mounted with the polygon mirror 1 for scanning light by generating a dynamic pressure effect between the bearing surfaces of the rotor 2 and a bearing member 34 for freely rotatably supporting the rotor 2, i.e., between the outer peripheral surface 23 of the rotor 2 and the inner peripheral surface 35 of the bearing member 34 in the state of floating the rotor 2. The film of a polyamide mixed with 10 to 80wt.% polytetrafluoroethylene is formed on at least either of the outer peripheral surface 23 of the rotor 2 and the inner peripheral surface 35 of the bearing member 34. In such a case, the polyamide film formed as the film is preferably mixed with 30 to 60wt.% polytetrafluoroethylene.



LEGAL STATUS

[Date of request for examination]

26.03.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

2995151

[Date of registration]

22.10.1999